

FIG. 1

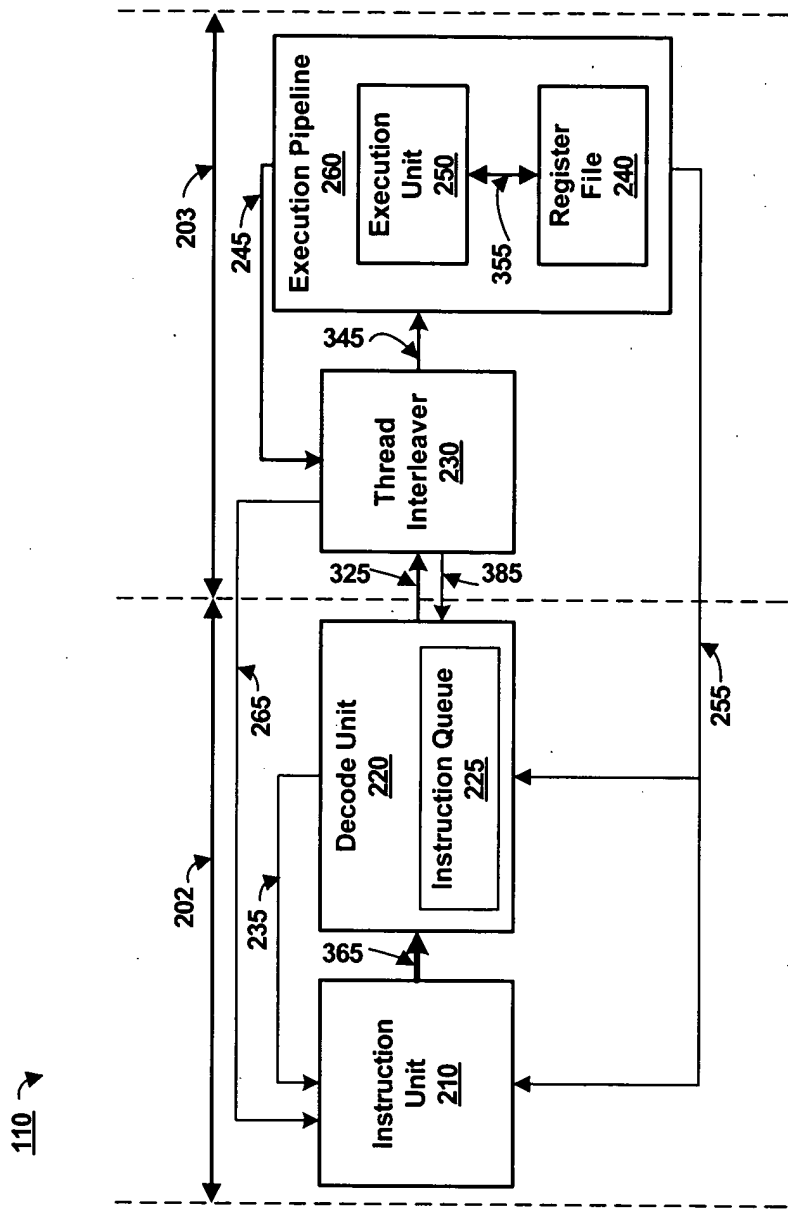


FIG. 2

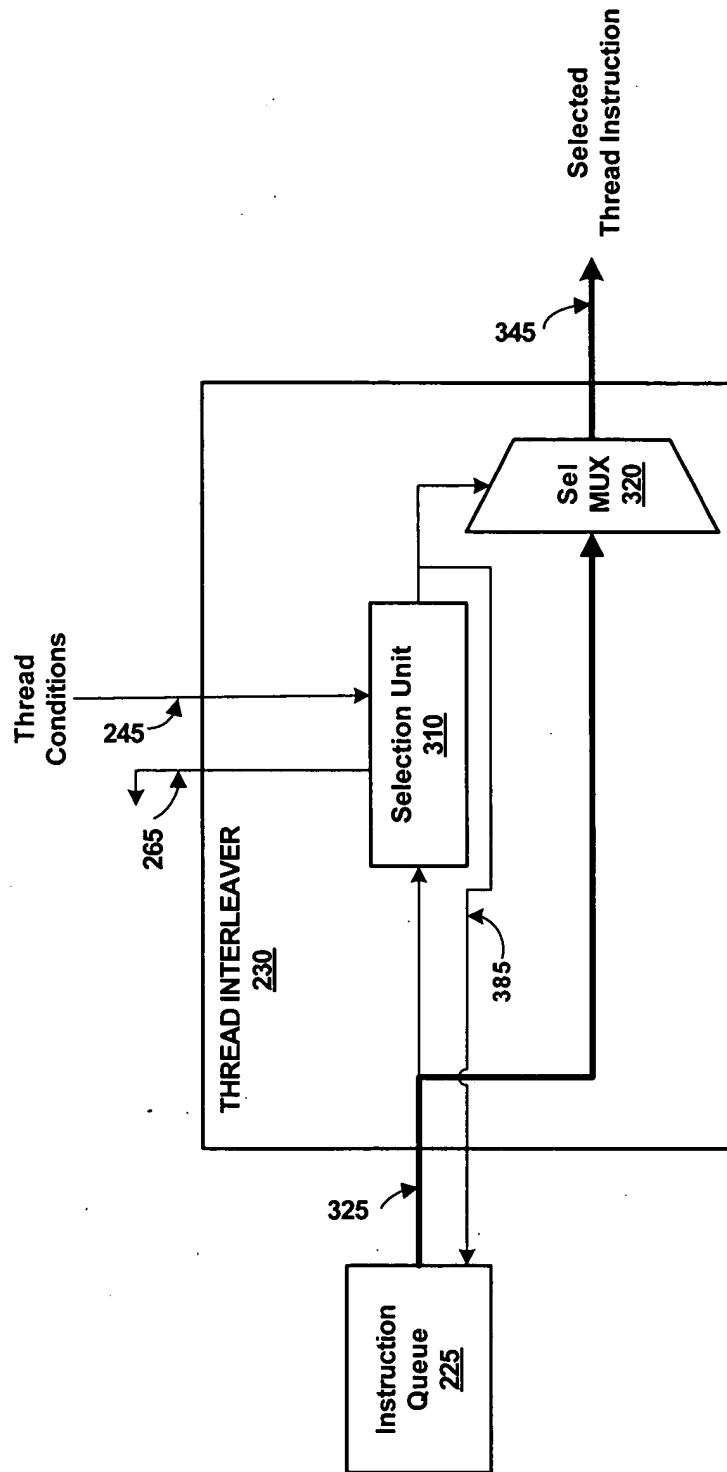


FIG. 3

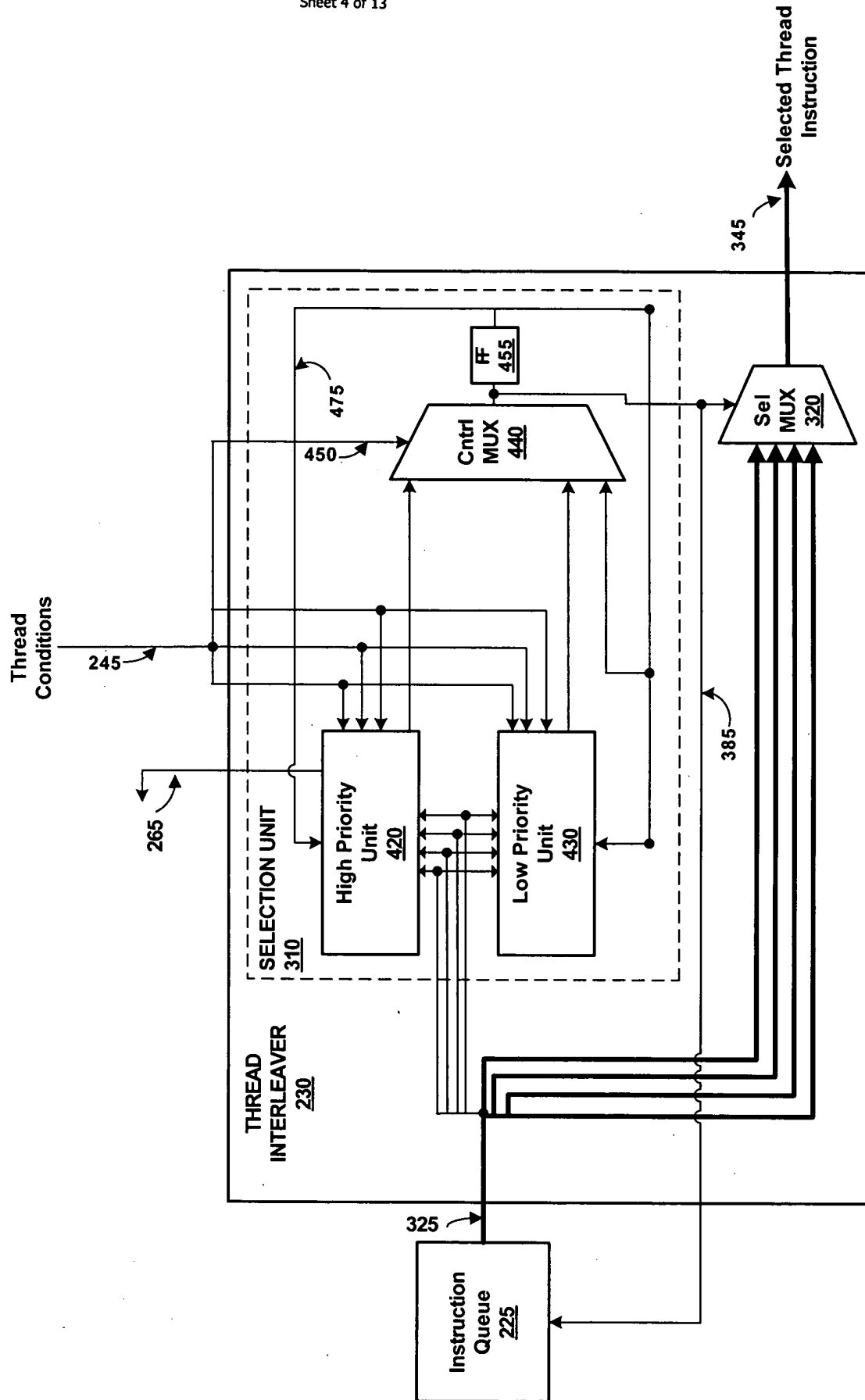


FIG. 4

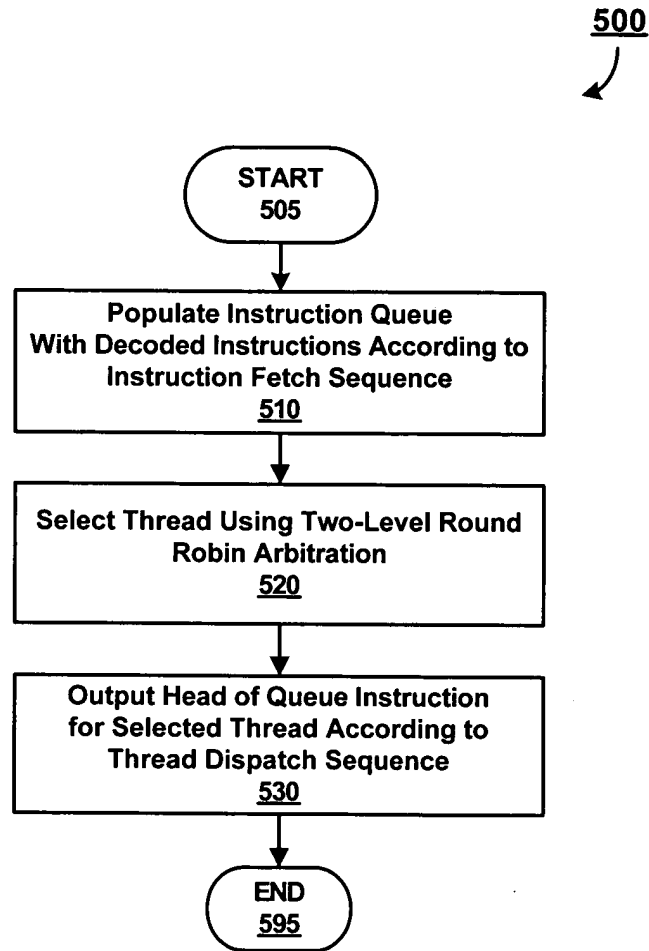


FIG. 5A

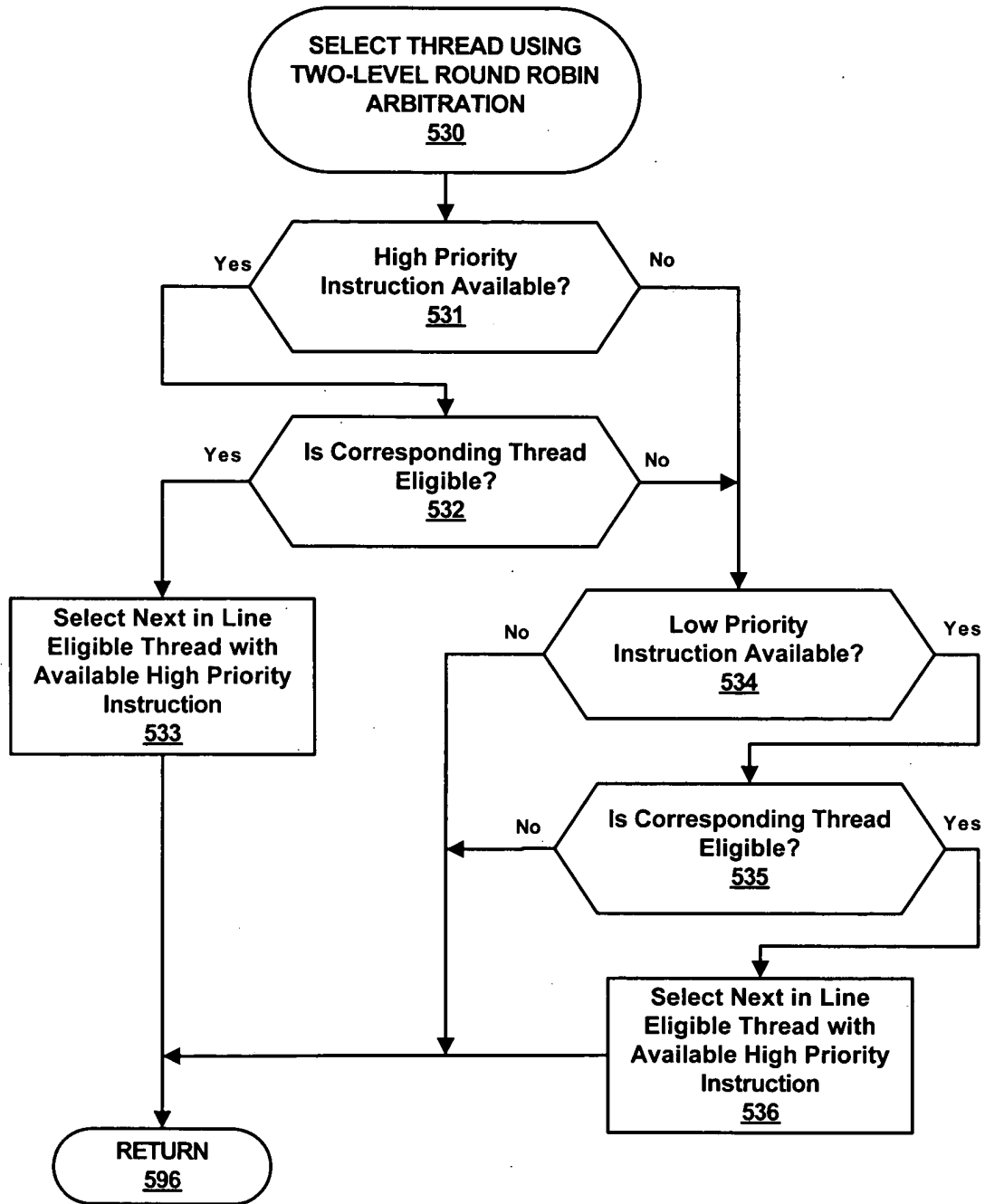


FIG. 5B

[Priority / Availability / Eligibility]
610

	T ₁	T ₂	T ₃	T ₄	Previous Selection
t	[0/1/1]	[0/0/0]	[1/1/1]	[0/1/0]	—
t+1	[0/1/1]	[1/1/1]	[1/0/1]	[1/1/0]	T ₃ ¹
t+2	[0/1/1]	[0/0/1]	[1/0/1]	[1/1/0]	T ₂ ¹
t+3 (global stall)	[0/0/0]	[0/1/0]	[1/0/1]	[1/1/1]	T ₁ ¹
t+4	[0/0/0]	[1/1/0]	[1/0/1]	[1/1/1]	—
t+5	[0/0/0]	[1/1/1]	[1/1/1]	[0/1/1]	T ₄ ¹
t+6	[0/0/0]	[1/1/0]	[1/1/1]	[0/1/0]	T ₂ ²

620

FIG. 6A

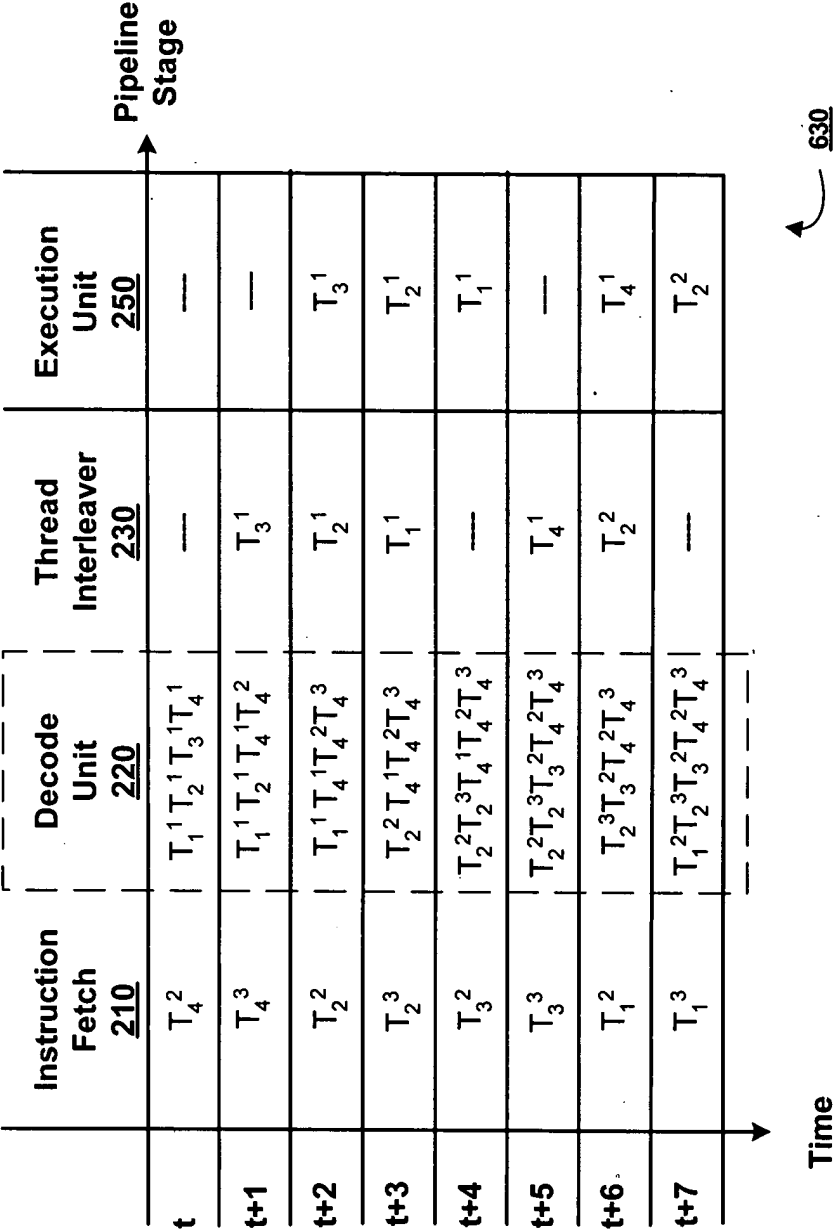


FIG. 6B

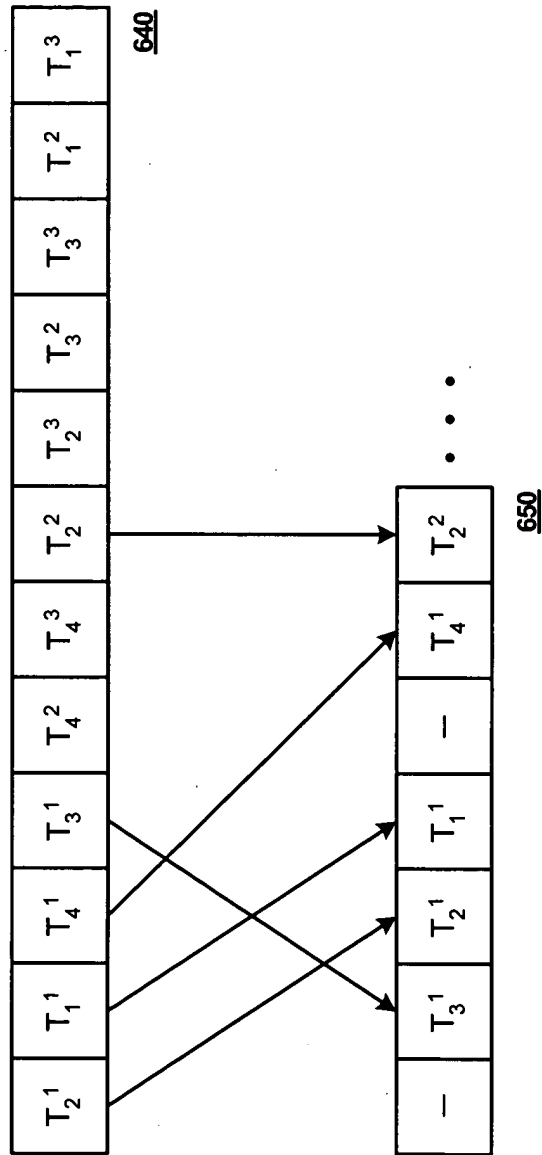
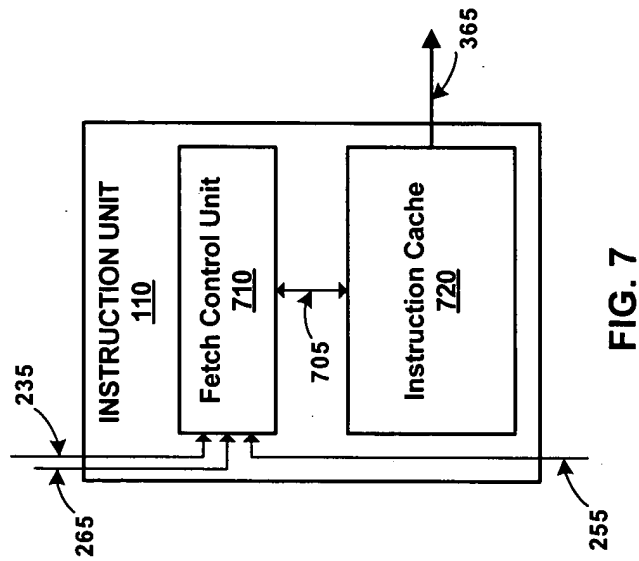
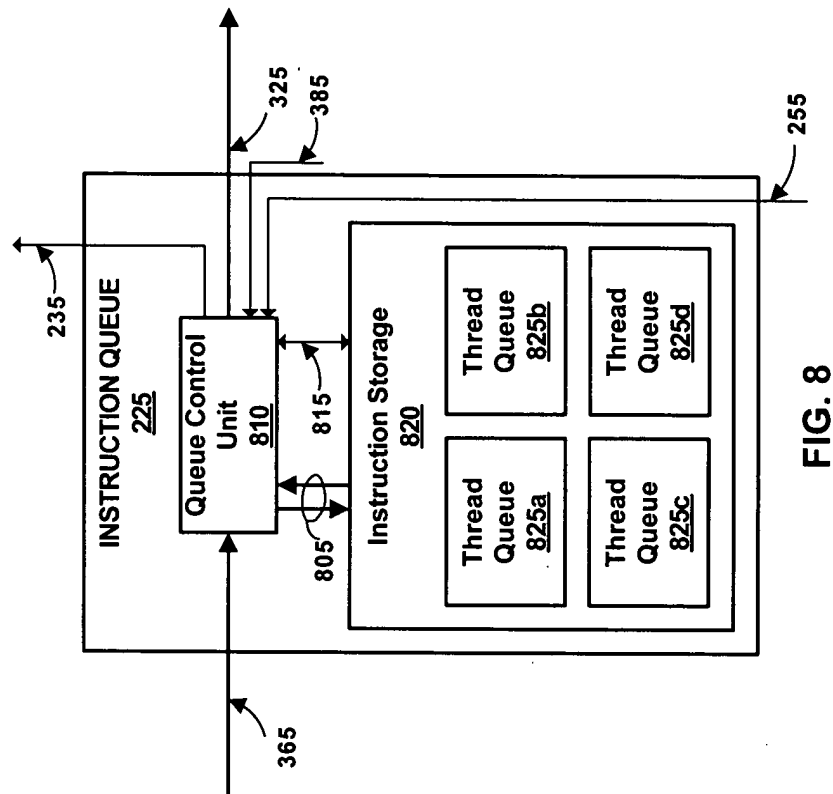


FIG. 6C





900

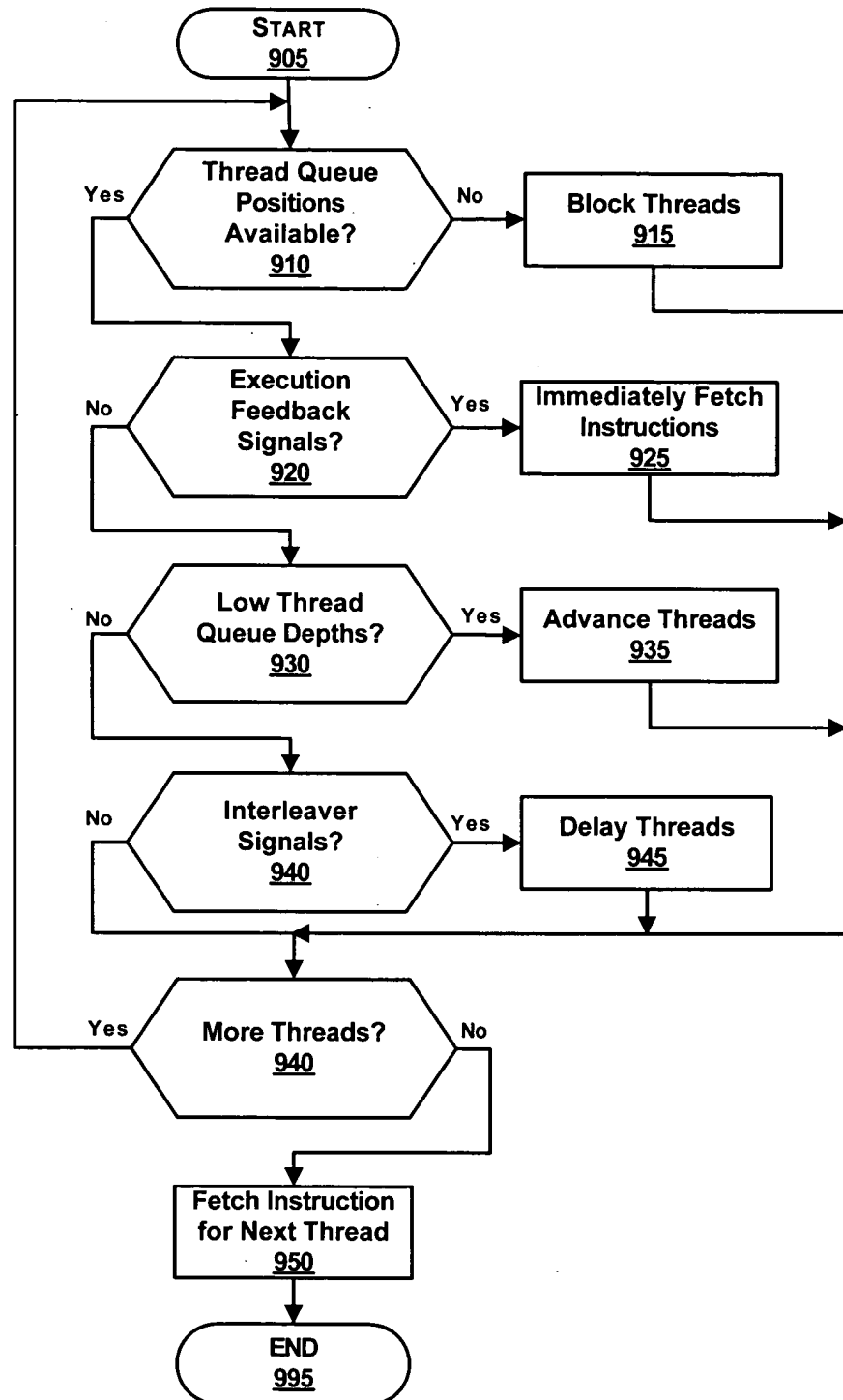


FIG. 9

[No Queue Position Available / Branch Misprediction / Low Queue Depth / Ineligible for Execution]
1010

	T ₁	T ₂	T ₃	T ₄	Fetch Control Unit 710
t	[0/0/0/0]	[0/0/0/0]	[0/0/0/0]	[0/1/0/0]	Immediately Fetch for T ₄
t+1	[1/0/0/0]	[0/0/0/0]	[0/0/0/0]	[0/0/0/0]	Block Fetch for T ₁
t+2	[0/0/0/0]	[0/0/1/0]	[0/0/0/0]	[0/0/0/0]	Advance Fetch for T ₂
t+3	[0/0/0/0]	[0/0/0/0]	[0/0/0/0]	[0/0/0/0]	No Input for Response
t+4	[0/0/0/0]	[0/0/0/0]	[0/1/0/0]	[0/1/0/0]	Immediately Fetch for T ₃

Time
1020

FIG. 10A

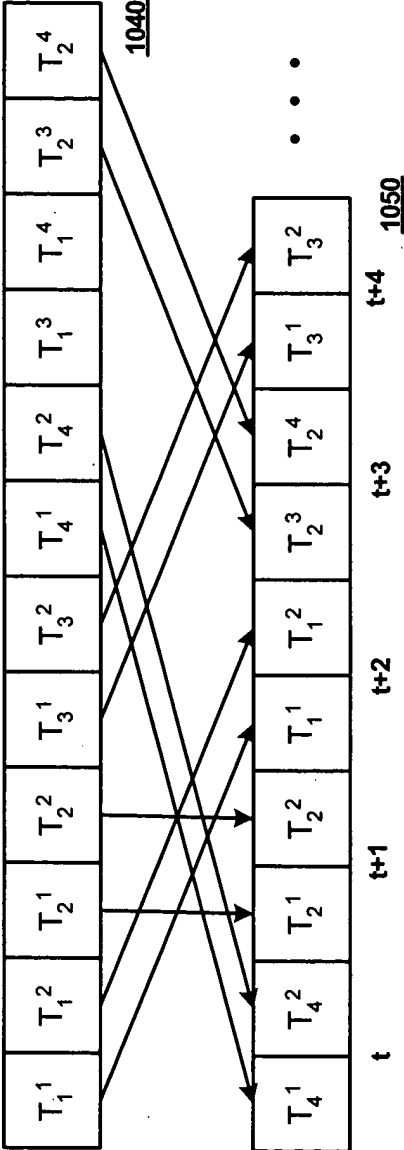


FIG. 10B